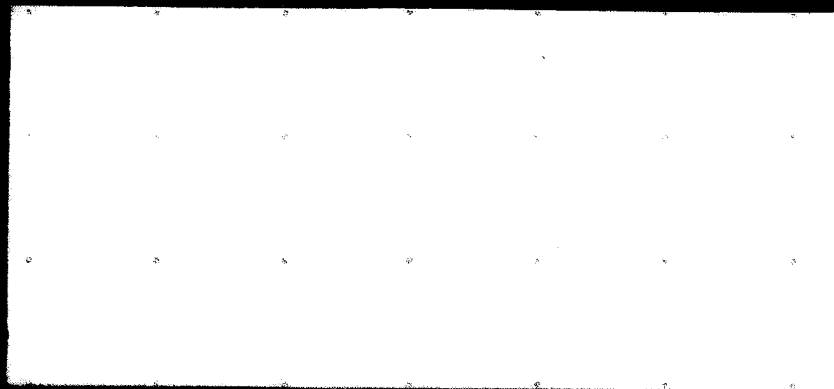


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Washington 25, D. C.

BIBLIOGRAPHY ON BIOSENSORS,  
A SAMPLING OF THE WORLD LITERATURE  
1900-1961  
(SECOND EDITION)

ARACON Laboratories  
A Division of Allied Research Associates, Inc.  
Virginia Road                      Concord, Mass.

January 1961

BIBLIOGRAPHY ON BIOSENSORS,  
A SAMPLING OF THE WORLD LITERATURE, 1900-1961  
(SECOND EDITION)

by  
J. Healer

Prepared for  
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A SAMPLING OF THE WORLD LITERATURE, 1900-1961  
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This bibliography was compiled during a program for assembly, evaluation and analysis of biosensing devices. Other aspects of this program are covered in a separate volume, Summary Report on a Review of Biological Mechanism for Application to Instrument Design, ARA-1025. The program was performed under Contract NASr-16, with the National Aeronautics and Space Administration. This bibliography represents the results of a literature search with particular emphasis on biosensor phenomenology. In its present form, the material represents a sampling of the world literature, generally covering the period 1900-1961. It supercedes document ARA-985 by J. Healer and A.T. Kornfield.

The bibliographic material has been placed in an IBM card code system which was developed for ease in literature handling and in retrieving assembled data for repeated and specific reference during subsequent phases of the program. Another advantage of this system is that it enables us to automatically print a bibliography in a number of different formats. For example we could divide and print the material in categories corresponding to the various sensed parameters. (e.g. chemoreception, mechanoreception, etc) or even divided further into sub categories such as olfaction, taste etc. We could also divide the material according to the breakdown of animal phyla depending on the focus of interest of a particular user. The format used here was chosen for ready access and general reference. The cards from which this document was printed can be made available by special arrangement.

This bibliography appears in three sections. The first two are arranged alphabetically by author. The last section is a translation of the journal code. The contents of each section are described in the following paragraphs.



The first section (pps. 1 236) includes photographed and verified references to specific articles published in a number of science journals. The first line includes the senior author's name and the journal information. The journal title appears as a four letter code. It is followed by a series of digits. The first three digits, followed by a comma, constitute the volume number. The four digits after the comma are the page number. The page number is followed by the last two digits of the year with no intermediate separation or punctuation. The second line of the reference contains junior authors names, if any, followed by the article title.

The second section (pps. 237-252) includes reference books. The first line of each reference retains the form previously described with only minor variations. The word BOOK appears in the position allocated to the four letter journal code and zeros fill the field where volume and page are found in the article references. The year is given by the last two digits of the digit series. The second line contains co - or junior authors if any. These are followed by the publisher and title.

The final section (pps. 253-295) contains the journal code translations. The four letter code is followed by its translation to the journal title which is in the Index Medicus, Chemical Abstracts, Physics Abstracts, etc.

### Acknowledgements

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The cooperation, in granting access and permitting the use of the photographic recording, of the following libraries is gratefully acknowledged: the Boston University Chenery Library; the Boston University School of Medicine Library; the Harvard Biology Library; the Harvard Museum of Comparative Zoology Library; the Harvard Medical School Libraries; the M. I. T. Libraries; the Marine Biological Laboratory Library, Woods Hole; and several other libraries.

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WYSS O                HEPH 012,000554  
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YAMASAKI T NATL 182,180558  
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YASUZUMI G JURS 001,029559  
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YOUNG J PRSL 152,000360  
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YOUNG P PSRV 056,009849  
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YOUNG T                    JOCP 038,013545  
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 ABCP ACTA BIOL CRACOV POLAND SERIE ZOO  
 ABEL ANIMAL BEHAVIOR LOND  
 ABIB ACTA BIOL BELG  
 ABIE ARCH BIENENKUNDE  
 ABIF ARCH BIOL PARIS

ABIH ARCH BIOL HUNG  
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AEPP ARCH EXP PATHOL U PHARMAKOL NAUNYN SCHMIEDEBERG  
AERM AEROSPACE MED  
AERS AEROMED ACTA  
AESA ANN ENTOMOL SOC AMER

AFCJ ARMED FORCES CHEM J  
AFMM AN FAC MED MONTEVIDEO  
AFPA ACTA ARGENT FISIOL  
AFTM ARCHIV TECHN MESSEN  
AFZO ARKIV FOR ZOOL  
AGPH ARCH GES PHYSIOL PFLUGERS  
AGRR AGROBIOLOGIYA USSR  
AHAJ AM INDUSTR HYG ASS J  
AHEJ ACTA HAEMAT JAP  
AHM ACTA HAEMAT BASEL  
AHIG ACTA HISTOCHEM JENA  
AHNP ARCHIVOS HISTOL B AIR  
AIAE ARCH ITAL ANAT EMBRIOL

AIBS AMER INST BIOL SCI  
AICR ADVANCES CANCER RES  
AIPD ARCH INT PHARMACODYN  
AIPH ARCH INT PHYSIOL  
AJAP AMER J CLIN PATH  
AJAS AUST J APPL SCI  
AJBS AUST J BIOL SCI  
AJCA AMER J CARDIOL  
AJEB AUST J EXP BIOL MED SCI  
AJGI AMER J GASTROENT

AJME AMER J MED  
AJOP AMER J OPHTHAL  
AJPA AMER J PATH  
AJPH AMER J PHYSIOL  
AJPM AMER J PHYS MED  
AJPS AMER J PSYCHOL  
AJPU AMER J PUBLIC HEALTH  
AJPY AUST J PHYS  
AJTM AMER J TROP MED  
AJVR AMER J VET RES  
AJZO AUST J ZOOL  
AKBR AKAD NAUK IZVEST SERIYA BIOL SSSR TRANSL  
AKFG ARCH KREISLAUFFORSCH  
AKJR AKUST ZHUR USSR  
AKMR AKAD MEDITSIN NAUK SSSR VESTNIK TRANSL  
AKOP AKOL POLSKA  
AMAH ACTA MICROBIOL ACAD SCI HUNG  
AMAN AMSTERD NATUR  
AMBI ACTA MED ET BIOL NIIGATA U  
AMDC ACTA PRIM ET SEC ACAD MED SHANGH  
AMDH ACTA MED ACAD SCI HUNG  
AMDJ AFRICAN MED J  
AMEF ANN MED EXP FENN  
AMES ARCH MED EXP MADRID

AMFR ARK MAT ASTR FYS  
AMHJ AMER HEART J  
AMIA ARCH MIKROBIOL ANAT  
AMIB APPL MICROBIOL  
AMIC ACTA MICROBIOL SINICA  
AMIP ACTA MICROBIOL POL  
AMJA AMER J ANAT  
AMJS AMER J SURG  
AMNA AMER MIDLAND NATURALIST  
AMNO AMER MUS NOVITATES  
AMNR AKAD MEDIT NAUK USSR  
AMOH ACTA MORPH HUNG  
AMON ACTA MORPH NEERL SCAND

AMER APPL MECH REVS  
AMSC AMER SCIENTIST  
ANAA ANALYST  
ANAB ANALYT ABSTR  
ANAS ANN NY ACAD SCI  
ANAT AMER NATURALIST  
ANAZ ANAT ANZ  
ANBF ANN BIOL CLIN PAR  
ANBR AKAD NAUK SSSR SER BIOL  
ANCH ANAL CHEM

ANEL ACTA NEUROL LATINOAMER  
ANES ANAESTHESIA  
ANET ANESTHESIOLOG  
ANGI ANGIOLOGY  
ANGS NGIOLOGIA  
ANIM ANN INTERN MED  
ANIR AKAD NAUK SSSR IKTHIOL TRUDY SOVESH  
ANOL ANN OCCUP HYG LOND  
ANPC ANN PHYSIK CHEMIE  
ANPF ANN INST PASTEUR PAR  
ANPH ARCH NEERL PHYSIOL  
ANPS ARCH NEUROL PSYCHIAT  
ANSU ANN SURG  
ANUB ACTA NEUROL BELG  
ANUS ANN UNIV SARAVIENS NATURWISS SCI SAARBRUCKEN  
ANUV ACTA NEUROCHIR WIEN  
ANVV ACTA NEUROVEG WIEN  
AOEC ACTA OECON ENTOMOL SINICA  
AOLB ACTA OTO RHIN LARYNG BELG  
AOLF ANN OTOLARYNGOL PAR  
AONG ARCH OHR NAS U KEHL HEILK  
AORL AMER OTOL RHIN AND LARYNG  
AOTO ACTA OTOLARYNG  
APAC ACTA PHARMACEUTICA SINICA

APAF ACTUALITIES PHARMACOL PARIS  
APAR AMER PERFUMER AROMAT  
APHA ACTA PHYSIOL LATINOAMER B AIRES  
APHC ACTA PHYSIOL SINICA  
APHH ACTA PHYSIOL ACAD SCI HUNG  
APHI ARCH FISIOL  
APHP ACTA PHYSIOL POL  
APHM ANN PHYS MED  
APHS ACTA PHYSIOL SCAND  
APJJ ACTA PATH JAP  
APPN ACTA PHYSIOL PHARMACOL NEERL  
APRI ARCH ITAL SCI FARMACOL  
APRS ACTA PHARMACOL KBH

APSF ANNE PSYCHOL  
APSP AMER PHILOSOPH SOC PROC  
APSS ARCH INST FARMACOL EXP MADRID  
APSY PPL SPECTROSC  
APYB ANN PHYS LEIPZIG  
APYC ACTA PHYS SINICA  
APYN ANN PHYS NY  
APYP ANN PHYS PARIS  
AQMR ACQUIS MED RECENTES PARIS  
ARBB ARCH BIOCHEM

ARBG ARCH HYG BAKT GERMANY  
ARBI ANN REV BIOCHEM  
AREC ANAT REC  
AREN ANN REV ENTOM  
ARFS ARK FYSIK SWEDEN  
ARGV ARCH GES VIRUSFORSCH  
ARIM ARCH INT MED  
ARME ANN REV MEDICINE  
ARMG ARCH MIKROBIOL GERMANY  
ARMI ANN REV MICROBIOL  
ARNS ANN REV NUCL SCI  
AROP ARCH OTHAL GRAEFES  
AROT ARCH OTOLARYNG  
ARPA ANN REV PHARMACOL  
ARPC ANN REV PHYS CHEM  
ARPH ANN REV PHYSIOL  
ARPM ARCH PHYS MED  
ARPS ANN REV PSYCHOL  
ARRE GREAT BRIT AERO RES COUNCIL REPTS AND MEMO  
ARSJ ANN REPT SCI COUNCIL JAPAN  
ARTE GREAT BRIT AERO RES COUNC TECH REPT  
ARTL ARTIF LIMBS  
ASAC ASTRONAUTICA ACTA  
ASBI ARCH SCI BIOL BOLOGNA

ASCR ASTRONAUT SCI REV  
ASEB ANN ET BULL SOC ENT BELG  
ASMA ABSTR SOVIET MED A  
ASMB ABSTR SOVIET MED B  
ASMJ ASIAN MED J  
ASNF ANN SCI NAT FRANCE  
ASNP ACTA SCIENTIARUM NATURALIUM UNIV PEKINENSIS  
ASPE AEROSPACE MED  
ASPF ARCH SCI PHYSIOL PAR  
ASPH ARCH SCI PHYSIOL  
ASPI AERO SPACE ENGINEERING INDEX  
ASRE APPLIED SCIENT RES  
ASTI APPLIED SCI TECH INDEX

AUCO AUTOMATIC CONTROL  
AUCR AUTOMATIC CONTROL OF PRODUCTION PROCESSES EXPRESS USSR TRANSL  
AUEX AUTOMAT EXPRESS  
AUFA ANN D UNIV D FERRARA ANAT  
AUFB ANN D UNIV D FERRARA BIOL ANIMALE  
AUFF ANN UNIV FERRARA FISIOL CHIMICA BIOL  
AUIT AUTOMATIKA I TELEMEXHANIKA USSR  
AUKX AUK  
AUQR AIR UNIVERSITY QUARTERLY REVIEW  
AURC AUTOMAT REMOT CONTROL



AURP POLSKA ACAD UMIEJ ROZ PR WYD MAT PRZY  
AURR AUTOMATIC REGULATION ALL UNION CONFERENCE PROCEEDINGS USSR TRANS  
AUSI AUST SCI INDEX  
AUTC AUTOMATION CHINA  
AUTO AUTOMATION  
AVTO AVTOMATYKA USSR  
AVWA AKAD V WETENSCHAP AMSTERDAM PROC C BIOL MED SCI  
AZBA ANN SCI NAT ZOOZ BIOL ANIMALE  
AZEG ARCH ZOOZ EXP ET GEN  
AZHR AKUSTICHESTKIYZH TRANSL USSR  
AZOA ARB ZOOZ INST UNIV WIEN  
AZOC ACTA ZOOZ SINICA  
AZOH ACTA ZOOZ HUNG  
AZOI ANN ZOOZ AGRA  
AZOJ ANNOTATIONES ZOOZ JAP  
AZOM ACTA ZOOZ MEXICANA  
AZON ARCH ZOOZ NEERL  
AZOP ANN ZOOZ POL  
BAMS BRIT ABSTR MED SCI  
BAPS BULL POL ACAD POL SCI BIOL  
BARB BULL ACAD ROY MED BELG  
BARE BACTERIOL REVS  
BASP BULL INTERNAT ACAD POLON SCI SER B  
BASR BULL ACAD SCI USSR TRANSL

BATR BATTELLE TECH REV  
BBBB BIBIO MARCI L BULL BIOL FRANCE ET BELG  
BBFB BIOL BULL FRANCE ET BELGIQUE  
BBIC BULL BIOL CHINA  
BBRC BIOCHEM BIOPHYS RES COMMUN  
BBYA BIOCHEM BIOPHYSICA ACTA  
BCAS BULL CHIN ASS ADVANC SCI TAIWAN  
BEBM BIULL EKSP BIOL MED  
BEHA BEHAVIOR  
BENR BULL ENTOM RES  
BESC BEHAVIORAL SCIENCE  
BFCU BULL U.S. FISH COMM  
BFRJ BULL HOKKAIDO REG FISH RES LAB

BIBI BIBLIOG INDEX  
BIBU BIOL BULL  
BICJ BIOCHEM J  
BICR BIOCHEMISTRY TRANS OF BIOKHMICA  
BICT BIOL CENTR  
BIFR BIOFIZIKA  
BIIR BULL INSTN HIGHER LEARNING INSTRUMENTAT USSR TRANSL  
BIMB BOL INST ESTUDY BIOL  
BIOD BIODYNAMICA  
BIOM BIOMETRICS

BIOP BIOLOGIA PAKISTAN  
BIOR BIOTA PERU  
BIPJ BIOPHYSICAL J  
BIPR BIOCHEM PHARMACOL  
BIRS BIOL REVS  
BISS BIOCHEM SOC SYMPOSIA  
BIZE BIOL ZENTRALBL  
BJAB BR J ANIM BEHAV  
BJEP BRIT J EXP PATH  
BJHE BR J HAEMAT  
BJHH BULL JOHNS HOPKINS HOSP  
BJMD BRIT MED J  
BJPR BRIT J PHARMACOL  
BJPS BRIT J PSYCHOL  
BJRL BULL JAPAN SEA REG FISH RES LAB  
BLAR BELL LAB RECORD  
BMBP BULL MATH BIOPHYS  
BMDJ BULL TOKYO MED DENT UNIV  
BMDR BIBLIO MED REVS  
BMEB BRIT MED BULL  
BMES BULL MARINE ECOL EDINBURGH  
BMLC BIBLIO CHINESE MED LIT  
BMRS BULL INST MED RES MADR  
BMZH BULL MUSEUM COMP ZOOL HARVARD

BNHR BULL MOSCOW NAT HIST SOC BIOL SECT  
BNSI BULL NAT INST SCI INDIA  
BOPT BIBL OPHTHAL  
BPAC BULL PHARMACOL CHINA  
BPHP BERICHTE GES PHYSIOL PHARMACOL  
BPTA BEITR PATH ANAT  
BPYC BULL PHYSICS CHINA  
BPYR BIOPHYSICS USSR TRANSL  
BRAN BRAIN  
BRCB BULL RES COUNC ISRAEL B BIOL GEOL  
BRCI BULL RES COUNC ISRAEL A MATH PHYS CHEM  
BREV BREVIORA MASS  
BRJR BRIT J RADIOL

BSBI BUL SOC ITAL BIOL SPER  
BSLP BULL SOC AMIS SCI POZNAN MED  
BSSA BIBLIO SCI PUBS S SE ASIA NEW DELHI  
BSTJ BELL SYST TECH J  
BTUT BULL TECH UNIV ISTANBUL  
CAJM CENTR AFRI J MED  
CALL CALLIPHORA  
CANC CANCER  
CAPH UNIV CALIF PUBL PHYSIOL  
CARB REV CANAD BIOL

CARD CARDIOLOGIA  
CARE CANCER RES  
CAST CURR ABSTR SCI TECH LIT GEN FOODS CORP  
CBPH COMPAR BIOCHEM AND PHYSIOL  
CBSF CURRENT BIBLIO AQUAT SCI FISH FAO UN ROME  
CCUL CANCER CURR LIT  
CECI CONTRIB EMBRYOL CARNEGIE INST  
CELE CANAD ELECTRONICS ENGN  
CENT CANAD ENTOM  
CEOF CESKOSLOV OFTALMOL  
CEPH CESH FYSIOL  
CHAB CHEM ABSTR  
CHAN CHEMIST ANALYST  
CHIL CHEM IND LONDON  
CHRE CHEM REVS  
CHTI CHEM TITLES  
CHWC CHEM WORLD CHINA  
CICS CIBA CLIN SYMPOSIA  
CIME CIENCIA MEXICO  
CIRC CIRCULATION  
CIRE CIBA REV  
CIRR CIRCUL RES  
CJBP CANAD J BIOCHEM  
CJMI CANAD J MICROBIOL

CJPH CZECH J PHYS  
CJPS CANAD J PSYCHOL  
CJPY CANAD J PHYS  
CJSI CEYLON J SCI BIOL SCI  
CJZO CANAD J ZOOL  
CLCH CLIN CHEM  
CLNU CLIN NEUROSURG  
CLSC CLIN SCI  
CMAU COMPUTERS AND AUTOMATION  
COEL COMMUN AND ELECTRONICS  
COMR CONTROL AND MEAST TECHS EXPRESS USSR TRANSL  
CONE CONTROL ENNG  
CONT CONTROL

COPS CONTEMPORARY PSYCHOL  
CORE COMPT REND PARIS  
CPAC E CHINA COLL PHARMACOL  
CRAS CRASS FRANC ADVANCEMENT AV SCI  
CRBF C R SOC BIOL PAR  
CRSP C R SCI MATH NAT ACAD POLON  
CRYO CRYOGENICS  
CSHS COLD SPRING HARBOR SYMPOSIA QUANT BIOL  
CSIA CSIRO ABSTR  
CTRS CONSOLID TRANSL SURVEY

CUCO CURR CONTENTS OF BIOSCIENCES LIT  
CULI CURR LIST MED LIT  
CYBE CYBERNETICA  
CYTJ CYTOL JAPAN  
CYTO CYTOLOGIA  
DAED DAEDALUS  
DANR DOKLADY AKAD NAUK USSR BIOL SCIENCES  
DCIN DRUG AND COSMETIC IND  
DEBI DEVELOP BIOL  
DERE DENT RECORD  
DERM DERMATOLOGICA BASIL  
DFAS DISC FARADAY SOC  
DIAB DISSERT ABSTR ANN ARBOR  
DINS DIS NERV SYST  
DMIJ DU MONT INSTRUMENT J  
DMNO DURBAN MUSEUM NOVITATES NATAL  
DPSR DEEP SEA RESCH  
DZNG EUTSCH Z NERVENHEILK  
DZOZ DEUTSCH ZOOL ZEIT  
EAMJ E AFR MED J  
ECEA ELECTRIC COMMUN USSR ABSTR  
ECOL ECOLOGY  
ECNP ELECTROENCEPH CLIN NEUROPHYSIOL  
ECRJ ECOL REV JAPAN

EDMD EDINBURGH MED J  
EEAB ELECTR ENG ABSTR  
EEAR ELECTRICITY USSR ABSTR  
EKHR EKSPER KHIRUR USSR  
EKSP EASTMAN KODAK RESCH LABS ABRIDGED SCI PUBLICS  
ELAL ELECTROCHIMICA ACTA  
ELCO ELECTRIC COMMUN  
ELCR ELECTRIC COMMUN USSR TRANSL  
ELEK ELEKTRICHESTRO USSR  
ELEN ELECTRICAL ENNG  
ELER ELECTROTEHNICA RUMANIA  
ELEX ELECTRONICS EXPRESS  
ELIT ELECTRONIC INDUSTRIES AND TELETECH

ELJL ELECTRICAL J LONDON  
ELKC ELEKTROTECH OBZOR CZECHO  
ELKY ELEKTROTEH VESTNIK YUGOSLAVIA  
ELME ELEKTROMEDIZ  
ELMI ELECTRON MICRO ABSTR  
ELNS ELECTRONICS  
ELTH ELECTROTECHNIEK HOLLAND  
ELTI ELETTRONICA ITALY  
ELTR ELECTRIC TECHNOL USSR  
ELZG ELEKTROTECH Z GERMANY



ENDK ENDOKRINOLOGIE  
ENDO ENDOCRINOLOGY  
ENEG ELECTRONIC ENGN  
ENHO ELECTRONICA HOLLAND  
ENID ELECTRONIC IND  
ENIN ENGINEER INDEX  
ENKC ENTOMOL KNOWL CHINA  
ENKG ELEKTRONIK GERMANY MUNICH  
EPCP ERGEBN PHYSIOL  
ERAE ELECTRICAL RES ASSN ABSTR ENGLAND  
ERBI ERGENBN BIOL  
ERGO ERGONOMICS  
ERPH ERGEBN DER PHYSIOL  
ETPG EXP TECH D PHYS GERMANY  
EVOL EVOLUTION  
EXCR EXP CELL RES  
EXMC EXCERPTA MEDICA 16 CANCER  
EXME EXCERPTA MEDICA SEC 1 ANAT HIST  
EXMP EXCERPTA MEDICA SEC 2 PHYSIOL BIOCHEM PHARMACOL  
EXNU EXP NEUROL  
EXPA EXPERIENTIA  
EXPI EXP PARASIT  
FALR FACTORY LABORATORY USSR TRANSL  
FANJ FOLIA ANAT JAP

FAST FARADAY SOC TRANSACT  
FBIC FOLIA BIOL PRAGUE  
FBKN FOLIA BIOL KWART NAUK CRACOW  
FDEG FOOD ENNG  
FDPP FOOD PROC AND PKG  
FDRE FOOD RES  
FDTE FOOD TECH  
FEPR FED PROC  
FIBR FRANKLIN INST BIOCHEM RES FDTN REPTS  
FIJN FRANKLIN INST JNL  
FIZR FIXIOL ZH SSSR SECHENOV  
FMIC FOLIA MICROBIOL CEZHOSLOV  
FSAB FOOD SCI ABSTR  
  
FZKR FIZIOL ZH KIEV USSR  
GASE GASTROENTEROLOGY  
GAST GASTROENTEROLOGIA BASIL  
GBMH G BRIT MINIST HEALTH REP  
GENE GENETICS  
GKHR GRUDN KHIR  
GMMO GERM MED MON  
GMSJ GUNMA J MED SCI JAPAN  
GPXX GP GEN PRACTIC  
GRSP GUIDE TO RUSS SCI PERIOD LIT BROOKHAVEN

GSAR GIG SANIT  
GUTL GUT  
HAKK AKADEMIAI KIADO HUNGARY  
HARL HARVEY LECT  
HEMJ HEBREW MED J  
HEPH HELV PHYSIOL PHARMACOL ACTA  
HEPY HELV PHYS ACTA  
HLPY HEALTH PHYSICS  
HNPP HANDB NORMAL PATHOL PHYSIOL  
HTAM HUNGAR TECH ABSTR MAGYAR MUSZAKI LAPSZ  
HUSZ HOKKAIDO U SCI FACUL J SER VI ZOOL  
HXSZ HOPPE SEYLER PHYSIOL CHEM  
IABS INTERN ABSTR BIOL SCI  
IADD INDEX TO AMER DOCTOR DISSERT  
IANB IZD AKAD NAUK BSSR  
IANR IZVEST AKAD NAUK SSSR BIOL  
IASB INDIAN ACAD SCI SECT B  
IASP INDIAN ACAD SCI PROC SECT A  
IBIS IBIS  
ICBI INT CONG BIOCHEM  
ICSR INST CONTEMP RUSS STUDIES  
ICZO INT CONG ZOOL  
IECJ INST ELECTR COMMUN ENG JAPAN J  
IEEJ INST ELECT ENGNJ JAP J

IEEP INST ELECTRICAL ENGRS PROC  
IEGB INSTRUM ENGR ENGLAND  
IEMR IZV INST EXSPER MORFOL USSR  
IETR INSTRUMENTS EXP TECHS USSR TRANSL  
IEVR IZV INST EXSPER VETERINAR USSR  
IJAP INT J AIR POLLUT  
IJMR INDIAN J MED RES  
IJMS INDIAN J MED SCIENCES  
IJNU INT J NEUROL URAGUAY  
IJPP INDIAN J PHYSIOL PHARMACOL  
IJPY INDIAN J PHYS  
IJRB INT J RADIAT BIOL  
IJRD IBM J RES AND DEV

ILLE ILLUM ENGN  
ILUE INSECT LIFE U.S. DIV ENTOMOL  
IMEJ ISRAEL MED J  
IMME IMMUNOLOGY  
INAE INSTRUM ABSTR ENGLAND  
INAJ IRISH NATUR J  
INCL INFORMATION AND CONTROL  
INCO INSTRUMENTS  
INEC INDUSTR ENGNG CHEM  
INEL INDUSTRIE ELEKTRONIK

INMR INSTRUM MAKING USSR TRANSL

INMSIndustr MED SURG

INRN NT REV NEUROBIOL

INSJ IGAKU NO SHIMPO JAPAN

INSN INSTRUMENTATION

IOBR IZV OTDEL BIOL MEDIT USSR

IPBC INT PHOTOBIOLOG CONG PROC

IPHC INT PHYSIOLOG CONGR PROC

IRCY INT REV CYTOL

IREP INST RADIO ENGN G PROC

IRHH INT REV GES HYDROBIOL HYDROG

ISAJ INST SOC AM J

ISCS IOWA ST COLL J SCI

ISMP INSTRUM MFR USSR TRANSL

ITBE INST RADIO ENGRS TRANSBIOMED ELECTRON

ITEJ INST TELECOMMUN ENG J

ITHF INST RADIO ENG TRANS HUMAN FACT ELECTRON

ITIT IRE TRANS PROF GROUP ON INFO THEORY

ITNS INST RADIO ENG TRANS NUCL SCI

ITTI INT TECH TITLES

IUHB ISTANBUL U F FAKULT HIDROBIOL ARASTIRMA ENSTUT YAYINLAR

IWMD INDEX MEDICUS

IZMR IZMERITEL NYA TEKMKA USSR

JAEC J ANIM ECOL

JAES J AUDIO ENNG SOC

JAGR J AGRIC RES

JAMA J AM MED ASSOC

JAMD J AVIATION MED

JANA J ANAT

JAPP J APPL PHYSIOL

JAPS J APPL PSYCHOL

JAPY J APPL PHYS

JARS J AM ROCKET SOC

JASA J ACOUST SOC AM

JBBC J BIOPHYS BIOCHEM CYTOL

JBCT J BACT

JBIC J BIOL CHEM

JBME J BIOCHEM AND MICROBIOL TECH AND ENG

JCCP J CELL COMP PHYSIOL

JCHP J CHEM PHYS

JCLE J CLIN ENDOCR

JCLI J CLIN INVEST

JCNU J COMP NEUROL

JCPP J COMP PHYSIOL PSYCHOL

JCRM J CHROMATOG

JCSI J CARDIOV SURG ITALY

JCSR J COMMUNIC USSR TRANSL

JDEC CHINESE J DERMAT  
JEBI J EXP BIOL  
JEBM J EXP BIOL MED  
JECE J ECON ENT  
JEER J EXP CELL RES  
JECS J ELECTROCHEM SOC  
JEEM J EMBRYOL EXP MORPH  
JEER J ABSTRACTS ELECTRICAL ENG USSR TRANSL  
JEMI J ELECTRON MICROSC  
JENC J ELECTRONICS AND CONTROL  
JEND J ENDOCR  
JENE J ENTOM SOC SOUTHERN AFRICA  
JEPR J EXP AND THEOR PHYS USSR TRANSL  
JEPS J EXP PSYCHOL  
JEZO J EXP ZOOL  
JFIN J FRANKLIN INST  
JFLM J FLUID MECHAN  
JFRC J FISH RES CANADA  
JFSJ J FAC SCI IMP UNIV TOKYO SECT IV  
JGMI J GEN MICROBIOL  
JGPH J GEN PHYSIOL  
JGPS J GEN PSYCHOL  
JHCY J HISTOCHEM CYTOCHEM  
JIBS J AM INST BIOL SCI

JIMC CHINESE J INT MED  
JIMM J IMMUNOL  
JIND J INVEST DERM  
JIPH J INSECT PHYSIOL  
JIPT J INSECT PATHOL  
JISL J BRIT INTERPLAN SOC  
JITE J INST TELECOMM ENGRS INDIA  
JJEC JAP J ECOL  
JJEM JAP J EXP MED  
JJMB JAP J MED SCI BIOL  
JJMI JAP J MICROBIOL  
JJPH JAP J PHYSIOL  
JJPR JAP J PHARMACOL

JLCM J LAB CLIN MED  
JLZL J LINN SOC LOND ZOOL  
JMAM J MAMMOL  
JMBK J MARINE BIOL ASSOC U.N. KINGDOM  
JMDJ JAP J MED SCI  
JMEC CHINESE J MECH ENGNG  
JMES J MECH ENGNG SCI  
JMOB J MOLEC BIOL  
JMOR J MORPHOL  
JMOS J MOLEC SPECTROS



JMPH J MORPHOL PHYSIOL  
JMPI J ANIM MORPH PHYSIOL BOMBAY  
JMPS J MECH PHYS SOLIDS  
JMSJ JAP J MED SCI 111 BIOPHYSICS  
JMSL J MENTAL SCI LOND  
JNCL J NEUROCHEM  
JNEN J NY ENTOMOL SOC  
JNES J NEUROSURG  
JNMD J NERV MENT DIS  
JNNP J NEUROL NEUROSURG PSYCHIAT  
JNPC CHINESE J NEUROL PSYCHIAT  
JNPH J NEUROPHYSIOL  
JNUN J NEUROPATH EXP NEUROL  
JOCJ J OCEANOGR SOC JAP  
JOCJ J COMP PSYCHOL  
JOPL BRIT J OPHTHALMOL  
JOSA J OPT SOC AMER  
JPED J PEDIAT  
JPET J PHARMACOL EXP THER  
JPHC CHINESE J PHYSIOL  
JPHL J PHYSIOL LOND  
JPHP J PHYSIOL PARIS  
JPPG J PHYSIOL PATH GEN  
JPRA J PHYS RAD FRANCE

JPSJ J PHYSIOL SOC JAPAN  
JPSY J PSYCHOL  
JPYC J PHYSIC CHEM  
JPYJ J PHYS SOC JAPAN  
JPYL BRIT J APPL PHYS  
JRMS ROYAL MICROSCOP SOC J  
JRNBS J RES NAT BUR STDS  
JSGC CHINESE J SURG  
JSIN J SCI INSTRUM  
JSRE JAP SCI REV BIOL SCI TOKYO  
JTBI J THEORET BIOL  
JTCS J THOR CARDIOV SURG  
JULR J ULTRASTRUCT RES

JZNA JENA Z NATURE  
JZOC CHINESE J ZOOL  
KLWG KLIN WSCHR  
KMDR KLIN MED MOSKVA  
KMMS KYUSHU MEM MED SCIS  
KOLZ KOLLOID Z  
KUMJ KURUME MED J  
KYBR KYBERNETIK  
LANL LANCET  
LCEL LA CELLULE

LRYG LARYNGOSCOPE  
LUAS LUNDS UNIV ARSSKR NF  
MALQ MIT ACOUSTICS LAB Q REPT  
MBBE MIT BIOL DEPT REPRINTS  
MDJC CHINESE MED J  
MDJG GLASGOW MED J  
MDNR MEDIT NAUK USSR  
MDPR EDIT PROMYSHL SSSR  
MDRF MED REPTS FORDHAM  
MDRR MED RADIOL USSR  
MDZR MED ZHUR UKRAIN  
MEAF MED AERO PAR  
MEAN MEDICINE ANAL REVS  
MEDI MEDICINE BALT  
MEED MIT ELECTR ENGG DEPT CONTRIBS  
MEEN MECHAN ENGG  
MEDZ MEDGIZ  
MEKE MATERIALY EXSPTL KLIN ELEKTROKARD  
MERR MED RADIOL MOSKVA  
META METABOLISM  
MFDT MIT DEPT FOOD TECHNOL REPRINTS  
MGLH MITT LEBENSMITT HYG  
MIAR ONTHLY INDEX OF RUSSIAN ACCESSIONS  
MIEN MICROENTOMOL

MILO MIT INDUST LIAI OFF PUB LIST  
MIME MILIT MED  
MISM MEM INST SCI MADAGASCAR  
MJMA MED J MALAYA  
MJOU MED J OSAKA U  
MLLR MIT LINCOLN LAB REPT  
MMED MIT MECH ENGG DEPT REPRINTS  
MNUI MINERVA NEUROCHIR  
MOLG MONATSSCHR OHRENHEILK  
MONO MONATSCHR OHRENHEILK TRANSL  
MPDC MIT PHYS DEPT CONTRIB  
MPOM MIT PAPERS PHYS OCEANOGRAPHY WITH WHOI  
MRLE MIT RES LAB ELECTRONICS TECH REPTS

MZHR MEDIC REFERAT ZH USSR  
NAFO NATURFORSCH  
NAHI NAT HIST  
NARU NATURW RUNDSCHAU  
NATL NATURE  
NAWG NACHR AKAD WISS GOTTINGEN MATH PHYS  
NAWI NATURWISSEN  
NCIJ US NAT CANCER INST J  
NEBI NEW BIOL  
NEIM NERVE IMPULSE

NEJM NEW ENGL J MED  
NEMA NEMATOL LEIDEN  
NESC NEW SCIENTIST  
NIBM NOTAS ESTUD INSTIT BIOL MARITIM LISBON  
NIHL NEWS OF INSTITS HIGHER LEARN ELECTROMECHAN USSR  
NIPR TSENTRAL NAUCH ISSLEDOVAT INSTPROTEZIROV PROTEZOSTROYENI USSR  
NOCO NOISE CONTROL  
NMDU NAGOYA J MED SCI  
NMJC ZHONG YIXUEZ  
NMZN NYTT MAGAS ZOOL OSLO  
NNBC NATIONAL BIBLIO NEW BOOKS CHINA  
NUCI NUCL INST METH  
NUCL NUCLEONICS  
NUSA NUCL SCI ABSTR  
NUCS NUCL SCI ENG  
NWVG NATURWISS WOCHSCHR NF GERMANY  
NYCE NEW YORK UNIV COLL ENGNG CONTRIB  
NZJS NEW ZEAL J SCI  
OCMA OCEANOGR MAGAZ  
OPAC OPTICA ACTA ENGLAND  
OPLR ONDERZOEK GED PHYSIOL LAB RIJKSUNIV UTRECHT  
OPSP OPTICS SPECTROSCOP USSR TRANSL  
OPTI OPTIK STUTTGART  
ORBG ORNITHOL BERICHT

OSZO OSTERR ZOOL  
OTPR ORTOP TRAVM PROTEZ  
OZOZ OST ZOOL ZEIT  
PACJ PROC JAP ACAD  
PAPC PROC AMER PHIL SOC  
PARA PARASITOLOGY  
PBBC PROGR BIOPHYS  
PBMC PERSPECT BIOL MED  
PBPL PROGR BIOPHYS LOND  
PCIN PUBL CARNEGIE INSTN  
PCMS PERCEPTUAL AND MOTOR SKILLS  
PCVD PROC CARDIOV DIS  
PEGR PROMYSHL EKONOMICH GAZET USSR

PEOR PERFUMERY AND ESSENTIAL OIL RECORD  
PEPH PROC ELECTRO PHYSIOL TECHNOL  
PFAR PROBL FIZIOL AKUST USSR  
PFTR PAT FIZIOL EKSP TER  
PHAR PHARMA ZIE  
PHBO PHYSIOL BOHEMOSLOV  
PHBT PROBS HEMAT BLOOD TRANS USSR TRANSL  
PHCO PHYSIOL COMPT ET OECOL  
PHRS PHYSIOL REV  
PHSP PHYSIOL SOC PHILA PROC

PHTR PHIL TRANS ROY SOC LOND A  
PHZO PHYSIOL ZOOL  
PICZ PROC INT CONG ZOOL  
PIPC PROC INT PHYSIOL CONG  
PIRA PROC INST RAD ENGRS AUSTRAL  
PIRE PROC INST RAD ENGRS  
PJHN PAVLOV J HIGHER NERV ACT USSR TRANSL  
PJSR PAKISTAN J SCI RESCH  
PKIR PROBL KIBERNETIKI USSR  
PLSL PROC LINN SOC LOND  
PLTR PHILIPS TELECOMM REV  
PMBL PHYS MED BIOL  
PNAU PROC NAT ACAD SCI US  
PNII PROC NATL INST SCI INDIA B BIOL  
POSC POULTRY SCIENCE  
PPHC PROGR IN PHYSIOL CHINA  
PPHR PATOLOGISCHESK FIZIOLOGIYA I EKSPERIM TERAPIYA USSR TRANSL  
PPYL PROC PHYS SOC LOND  
PRAU PROGRESS IN AUTOMATION  
PRCA PROCESS CONTROL AUTOMAT  
PRIR PRIRODA USSR  
PRNE PROGR NEUROBIOL  
PROT PROTOPLASMA  
PRRS PHARMACOL REV

PRSA PROC ROY SOC LONDA  
PRSL PROC ROY SOC LONDB  
PRSM PROC ROY SOC MED  
PSAB PSYCHOL ABSTR  
PSBS PROC SOC BIOL SANTIAGO  
PSBU PSYCHOL BULL  
PSCC PROGR OF SCI CHINA  
PSEB PROC SOC EXP BIOL MED  
PSEM PROC STOCKHOLM CONF ON ELECTRON MIC  
PSMC PROC STAFF MTG MAYO CLIN  
PSMO PSYCHOL MONOGR  
PSPS PLANETARY AND SPACE SCI  
PSRD PSYCHOL REC

PSRV PSYCHOL REV  
PSYC PSYCHOLOGIA  
PSYI PSYCHIATRY  
PSYE PSYCHE STUTTG  
PSZI PUBBL STAZ ZOOL NAPOLI  
PTGA PROC TOILET GOODS ASSN , SCI SECT  
PTLX PAPERS TORTUGAS LAB  
PTPL PHIL TRANS ROY SOC LOND B  
PYAR SOVIET PHYSICS ACOUSTICS  
PYEX PHYS ESPRESS



PYFL HYS OF FLUIDS  
PYPR PSYCHOPHARMACOLOGIA  
PYRE PHYS REV  
PYVR SOVIET PHYSICS USPEKHI  
PZSL PROC ZOOL SOC LOND  
QJCR QUART J EXP CELL RES  
QJEP QUART J EXP PHYSIOL  
QJMD QUART J MED  
QJMS QUART J MICROSCOP SCI  
QJPS QUART J EXP PSYCHOL  
QRBI QUART REV BIOL  
QTRV QUARTERMASTER REV  
RADI RADIOLOGY  
RADR RADIAT RES NEW YORK  
RAEA REV APPL ENTOMOL SERIES A  
RAER RADIOTEKHN I ELEKTROIKA  
RATR RADIOTEKHNKA  
RCMG REV COL MED GUATEMALA  
RCZM REV CZECHOSLOV MED  
REAE REV APPL ENTOMOL SERB  
REBE ROY SOC EDINBURGH PROC B BIOL  
REBI REV BIOL BUCHAREST  
REHE REV HEMATOL PARIS  
RELY REV LARYNG

REMS REV EASTERN MED SCIENCES MUNICH  
RFCB REV FRANC ETUDES CLIN ET BIOL  
RFCL REV FACAL CIENCIAS U LISBOA CIENCIAS NATURAIS  
RFFJ REPT FAS FISHERIES PREF UNIV MIE JAPAN  
RHAЕ RHEOLOGY ABSTR ENGLAND  
RIAA RES INST ADVCD STUDY ANN REPT  
RIAM RES INST ADVCD STUDY RIAS MONOGR  
RIAT RES INST ADVCD STUDY TECH DEPT  
RIMR REP INST MICROBIOL RUTGERS U  
RIQT ROCKEFELLER INST QUART  
RMAB REV MED AERO BRAZIL  
RMCR REV MED COSTA RICA  
RMEC REV MED CHILE

RMEI REV MED AERONAUT ITALY  
RMML REV MED MOYEN ORIENT  
RMPS REV MEXIC PHYS  
RMPY REVW MOD PHYS  
RNMD RES PUB ASSOC NEW MENT DIS  
ROMR ROCKEFELLER INST MED RES STUDIES REPRINTS  
RPHS REV ESPANOL FISIOL  
RPTN RIV PAT NEUROL  
RREV RCA REV  
RSAB REV SOC ARGENTINA BIOL

RSIN REV SCI INSTRUM  
RSIP CURRENT REV SOVIET TECH PRESS  
RTLRL RUSSIAN TECH LIT  
RUMR RUMANIAN MED REV  
RZBR REFER ZH BIOL USSR  
RZMR REV ZECHOSLOV MED  
RZOR REV ZOOL RUSSE  
SABA SCI ABSTR SECT A  
SABC SCI ABST CHINA BIO SCI  
SAJM S AFR J LAB CLIN MED  
SAJS S AFR J MED SCI  
SAPH SCAND ARCH PHYSIOL  
SAWW SITZUNGSBES AKAD WISS WIEN  
SBBI SUMMA BRASIL BIOL  
SBIP SURVEY BIOL PROG  
SCBA SOC SCI D BRUXELLES ANN II SCI NAT ET MED  
SCEC SCI RECORD CHINESE ED  
SCIC SCI SINICA  
SCIE SCIENCE  
SCIP SCI PROG  
SCIV SCI VALPARAISO  
SCLJ SCI OF LIGHT TOKYO  
SCMI SCI MED ITAL ENG  
SCMJ SCOT MED J

SCMO SCI MONTHLY  
SCNF FRENCH SCI NEWS  
SCPS SCI PROGRESS  
SCYJ SYMPOSIA CYTOCHEM JAPAN  
SESP SOC EXP STRESS ANAL PROC  
SIPM SMITHSON INST PUB MISC COLLECTIONS  
SJCL SCAND J CLIN LAB INVEST  
SMDR SOVIET MEDIT  
SMDW SCHWEIZ MED WSCHR  
SMIA SMITHSON INST ANN RET  
SNKJ SEITAI NO KAGAKU  
SOAB SOVIET ABSTR BIOL TRANS REFERZTIVNY ZHURN BIOL USSR  
SPER SCIENT PROC INST ELECTROMECH AND AUTOMAT USSR TRANSL

SPRM SPERIMENTALE  
SRHS SCI REPTS OF HIGHER SCHOOLS ELECTROMECH AUTOMATION USSR TRANSL  
SRIJ STANF RES INST J  
SRTC SCI REC CHINA TRANSL  
SRTJ SCIENCE REPTS TOHOKU UNIV 4TH SER  
SSCC SYMPOSIA SOC CELL CHEM OKAYAMA  
SSEB SYMPOSIA SOC EXP BIOL  
SSRR SYMPOSIA SCI RES INST COMMUN MINISTRY USSR TRANSL  
SURG SURGERY  
SXQT SIGMA XI QUART

TAAO TR AM ACAD OPHTHAL  
TAAP TRANS ASS AMER PHYSICIANS  
TAAR AUSTRAL AERORESCH LABS TRANSL  
TAES TRANS AM ENTOMOL SOC  
TAMF TRANS AMER FISHERIES  
TANA TRANS AMER NEUROL ASS  
TAOS TRANS AMER OTOL SOC  
TAPP TAPPI  
TAPR TOXICOL AND APPL PHARMACOL  
TAPS TRANS AMER OPHTHAL SOC  
TBIN TABULA BIOLOGICAE  
TBMR BULL EXP BIOL AND MED USSR TRANSL  
TEAR TERAPEVTICH ARKHIV USSR TRANSL  
TEMR TECHN OF MEAST USSR TRANSL  
TIBR TR INST BIOL AKAD NAUK SSSR SVERDLOBSK  
TICE TRANS INT CONGR ENTOMOL  
TIES TIJDSCHR ENT  
TIFR TR INST FIZIOL UMENI PAVLOVA SSSR  
TIMR TR INST MIKRO SSSR  
TIZJ TOHOKU IGAKU ZASSI JAPAN  
TJAR J ACOUSTICS ABSTRACTS USSR TRANSL  
TJMJ TOHOKU J EXP MED  
TLBS TRABAJOS LAB INVEST BIOL UNIV MADRID  
TMBR MICROBIOL USSR TRANSL

TMCJ TRANS JAP MED CONGR  
TMCR TRANS MOSCOW COMMUN INSTIT TRANSL  
TMDJ TAIWAN MED J  
TMSR BULL TRANS RUSSIA MED SCI  
TNAS TRANS NY ACAD SCI  
TNER NEWS OF INST HIGHER LEARNING ELECTROMECH ABSTR USSR TRANSL  
TPHR TR IN TA FIZIOL IN PAVLOV  
TPVR PROBL VIROL SSSR TRANSL  
TQRR QUART REV SCI PUBS B BIOL POLAND TRANSL  
TRBM TEXAS REP BIOL MED  
TRBR RUSSIAN REV BIOL TRANSL  
TRBU TRANSPLANT BULL  
TREL TRANS ROY SOC LOND

TRSC TRANS ROY SOC CAN  
TRXX TRANSL MONTHLY  
TSCC TELECOMMUN SCI CHINA  
TSIR TSITOLOG USSR  
TSME TRANS AMER SOC MECH ENGNG  
TSPH TR SOVESHCHPO FIZIOLRYB  
TSPI AMER PHILOSOPH SOC TRANS  
TTXN TURTOX NEWS  
TUMD TOULOUSE MED  
TUSZ TOKYO U SCI FAC J IV ZOOL

TVFB TR VSESOIUZ OBSHCH FIZIOL  
TVMA TR VOENNOMORSKOI MED ACAD  
TVMR TR VMA USSR  
TVNR TR VNIRO USSR  
TVPR TEORIYA VEROYATNOSTI YEYE PRIMENENIYA USSR  
TXJS TEXAS J SCI  
UGRP US GOVT RES REPTS  
UPIH UNTERSUCH PHYSIOL INST U HEIDELBERG  
UQPZ U QUEENSLAND PAPERS  
URSU UROL SURV  
USBR USP SOVR BIOL  
USFW US DEPT INTER FISH & WILDLIFE ANN REPT WOOD HOLE LAB  
USNB US NAT BUR STANDARD J RES  
USRA US LIB CONG MONTHLY INDEX RUSSIAN ACCESS  
UUBS UNIV UTAH BIOL SER  
VANR VESTN AKAD MED NAUK SSSR  
VDGK VERH DEUTSCH GES KREISLAUFFORSCH  
VDZG VERH DEUTSCH ZOOL GES  
VIRO VIROLOGY  
VKIR VESTNIK KHIR GREKOV  
VMFD VIDENSK MEDDEL FRA DANSK NATURHIST FOREN KOBENHAVN  
VNMG VERH NATURHIST MED VER HEIDELBERG  
VOWA VOGELWARTE  
VXPH VERGL PHYSIOL

WAMJ W AFR MED J  
WHOC WOODS HOLE OCEANOGRAPH INST COLL REPRINTS  
WIMJ W INDIAN MED J  
WNEU WORLD NEUROL  
WRMD AR MED  
YBNE YEARBOOK OF NEUROL  
YJBM YALE J BIOL MED  
ZBMR ZH EKSPTL BIOL MED  
ZDTR ZDRAVOOKHRANENIYE TURMENIST  
ZFB I Z FUR BIOL  
ZFWB Z F WISSEN BIOL  
ZFWM Z FUR WISS MIKROSC  
ZGEM Z GES EXP MED

ZJAA ZOOL JAHRB ABT ANAT U ONTOGEN TIERE  
ZJZP ZOOL JAHRB ABT ZOOL PHYSIOL TIERE  
ZKCF Z KREISLAUFFORSCH  
ZMAF Z MIKROSCOP ANAT FORSCH  
ZMIR ZH MIKROBIOL EPIDEMIOL IMMUNIBIO USSR  
ZMNG Z MATH NATURWISS UNTERR  
ZMOT Z MORPHOL OKOL TIERE  
ZNDR ZH VYSS NERV DEYATEL USSR  
ZNOR Z NAUK SSSR INST OKCEANOK  
ZNPS ZH NEUROPATOL PSIKIAT USSR



ZNSR ZNANIYE SILA USSR

ZOAN ZOOL ANZ

ZOBS ZOOLBIDROE

ZOJB ZOOL JAHRB ABT 3

ZOOL ZOOLOGICA

ZOPH ZOOL PHYSIOL

ZOZR ZOOLOGICHESKIY ZHURN USSR TRANSL

ZPYK Z PHYSIK

ZSPH Z SINNESPHYSIOL

ZTPS Z TIERPSYCHOL

ZVNR ZHURN VYSSHEY NERVNOY DEYAT USSR TRANSL

ZVPH Z VERGL PHYSIOL

ZWZO ZEIT F WISS ZOOL

ZZEL Z ZELLFORSCH

ZZMP Z ZEILFORSCH